

Product: BETASAN® 3.6% GRANULES
EPA Reg. No.: 869-212
Effective Date: 07/31/1996

MATERIAL SAFETY DATA SHEET

Emergency Phone 800/535-5053

Size	Product Number	UPC Code
10 lb.	47612	0 49424 47611 4

Note: Be sure to compare the EPA registration number as given on the MSDS with the EPA registration number as given on the label as some products have had the active ingredients changed without a corresponding change in the UPC number or in the item description.

1. INGREDIENTS:

S-(O,O-disopropyl phosphorodithioate) ester of N-(2-mercaptoethyl) benzene sulfonamide 45.36%
CAS No. 741-58-2

2. PHYSICAL DATA:

BOILING POINT:	N/A
VAPOR PRESSURE:	N/A
SOL. IN WATER:	N/A
SPECIFIC GRAVITY:	1.1062
MELTING POINT:	N/A
APPEARANCE:	Cream-tan granules
ODOR:	N/A

3. FIRE AND EXPLOSION HAZARD DATA:

FLASH POINT:	599°F (315°C)
METHOD USED:	N/A
FLAMMABLE LIMITS:	N/A
EXTINGUISHING MEDIA:	Water, dry chemicals, foam, or carbon dioxide
FIRE AND EXPLOSION HAZARDS:	Considered noncombustible. However, under fire conditions, the product may decompose to give off toxic materials.

FIRE-FIGHTING EQUIPMENT/
TECHNIQUE:

Firefighters should wear full face self-contained breathing apparatus and impervious protective clothing. Use of high pressure water hose may spread product from broken containers, increasing contamination hazard. Contaminated buildings, areas and equipment must not be used until they are properly decontaminated.

4. REACTIVITY DATA:

STABILITY: Stable under normal conditions.

INCOMPATIBILITY

(Specific materials to avoid):

Relatively nonreactive. Noncorrosive to materials commonly used in the construction of process equipment, storage and shipping containers.

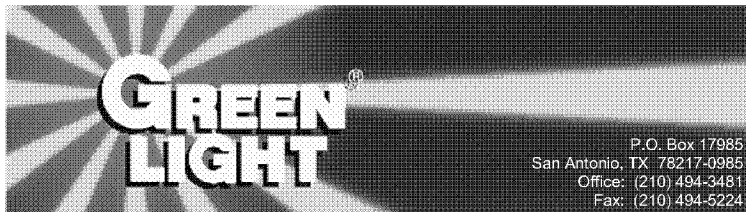
5. ENVIRONMENTAL AND DISPOSAL INFORMATION:

ACTION TO TAKE FOR

SPILLS/LEAKS:

Make sure all personnel involved in the spill cleanup follow good industrial hygiene practices. Any person entering either a significant spill area or an unknown concentration of a dust should use a positive pressure, self-contained breathing apparatus or a positive pressure supplied-air respirator with escape pack. Small spills can be handled routinely. Use adequate ventilation and/or wear a NIOSH-approved pesticide respirator to prevent inhalation exposure. Wear protective clothing to prevent skin and eye contact. Use the following procedures:

1. Sweep up spilled material, being careful not to create dust.



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DISPOSAL METHOD:

2. Place sweepings in a chemical waste container for disposal.
3. Generously cover contaminated area with a slurry of common, powdered household laundry detergent and water. Using a stiff brush, work the slurry into cracks and crevices. Allow to stand for 2 - 3 minutes and then flush with water. Repeat if necessary.
4. Large spills should be handled according to a predetermined plan. In case of spill emergency, day or night, call Infotrac at 800/535-5053. This material is toxic to fish. Do not contaminate waterways by cleaning of equipment or by disposal of wastes. Untreated effluent should not be discharged where it will drain into lakes, streams, or ponds. Discarded product is not a hazardous waste under RCRA, 40 CFR 261. Do not reuse empty container except for storage and shipment of original product. Remove all product and puncture or otherwise destroy empty container before disposal.

6. HEALTH HAZARD DATA:
GENERAL:

EYES:
SKIN CONTACT:
SKIN ABSORPTION:

The principal routes of exposure are skin contact and inhalation of the dusts.
Moderately irritating.
Nonirritating
Significant concentrations will probably not be absorbed through the skin in man.

INGESTION:
INHALATION:

Slightly toxic; Acute oral LD50 in rat is above 1 g/kg.
Since this product is a granular formulation, significant inhalation exposure is unlikely to occur. However, exposure to high concentrations of the airborne granular formulation may result in effects related to cholinesterase inhibition.

SYSTEMIC & OTHER EFFECTS:

The active ingredient produces cholinesterase inhibition in experimental animals. Symptoms of cholinesterase inhibition include salivation, sweating, headache, nausea, muscle twitching, tremors, incoordination, blurred vision, tears, abdominal cramps, diarrhea, and chest discomfort. Severe cases may lead to convulsions, pulmonary edema, respiratory failure, and death. CALL POISON CENTER, PHYSICIAN, OR HOSPITAL IMMEDIATELY. If a known exposure occurs or is suspected, immediately start the recommended procedures below. Simultaneously contact medical help. Advise person contacted that the product is a cholinesterase inhibitor. Inform the person contacted of the type and extent of exposure, describe the victim's symptoms, and follow the advice given.

7. FIRST AID:
EYES:

Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. If redness, itching, or a burning sensation develops, have eyes examined and treated by medical personnel.

SKIN:

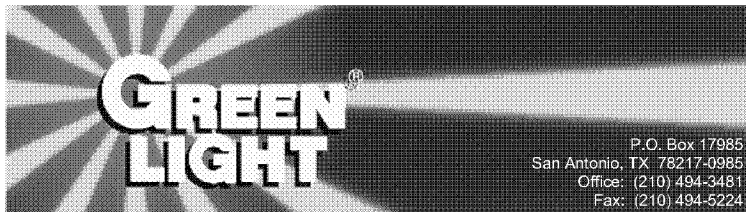
Wash material off of the skin with plenty of soap and water. If redness, itching, or a burning sensation develops, get medical attention.

INGESTION:

Give 1 - 2 glasses of water to drink and induce vomiting by sticking finger down throat. Repeat until vomiting is clear. Refer person to medical personnel. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

INHALATION:

Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is labored, give oxygen. Consult medical personnel.



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NOTES TO PHYSICIAN:

If cholinesterase inhibition is suspected, atropine by injection is antidotal after cyanosis is relieved. Pralidoxime chloride (2-PAM, Protopam) has shown utility as adjunctive therapy. Do not use morphine. Continued absorption of the poison may occur, resulting in total relapse after initial improvement. Very close supervision of the patient is indicated for at least 48 - 72 hours.

**8. HANDLING PRECAUTIONS:
EXPOSURE GUIDELINE(S):**

No ACGIH TLV or OSHA PEL assigned. Minimize exposure in accordance with good hygiene practice.

VENTILATION:

This product is intended for use outdoors where engineering controls are not necessary. If use conditions are different (e.g. product reformulation or repackaging), employee exposure should be minimized using traditional techniques such as enclosed system design and/or local exhaust ventilation.

**RESPIRATORY PROTECTION:
SKIN PROTECTION:**

If needed, use OSHA/NIOSH approved respirator for pesticides. Use impervious gloves, footwear, long-sleeved clothing, and wide-brimmed hat. Remove contaminated clothing and wash before re-wearing.

EYE PROTECTION:

Use chemical safety glasses, goggles, or a face shield, selected in regard to exposure potential.

**9. ADDITIONAL INFORMATION:
SPECIAL PRECAUTIONS TO BE TAKEN
IN HANDLING AND STORAGE:**

Do not store within the reach of children. Containers should be stored in a cool, dry, well-ventilated area away from flammable materials and sources of heat or flame. Exercise due caution to prevent damage to or leakage from the container. Prevent skin and eye contact with this material. Avoid inhalation of spray mist. Showers at the end of the work day are desirable. Workers must follow good personal hygiene practices. Wash with soap and water immediately after use or contact. Do not eat, drink, or smoke in areas where the material is being used. Keep food and animal feed in separate area away from the storage/use location.

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